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10 February 1969

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report to ITEK, 4-5 February 1989

1. The undersigned visited Itek facilities at Lexington and Burlington, Massachusetts, on 4-5 February 1969.

D/R&D/OSA, participated in orientation and

discussions on 5 February 1969. Itek personnel contacted

were

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among others. Items discussed, all relating to IRIS II, are listed below.

- 2. Delivery of IRIS II configurations Deliveries are back on schedule. IRIS II SN-002 was picked up at Hanscom AFB, Massachusetts, the morning of 4 February 1969 and is slated to be delivered to Edwards AFB on 6 Feb 1969. SN-003 will be ready for pick up around 24 February 1969. At this time, a March delivery for SN-004 still looks good. All supporting gear, i.e., test site, consoles, doghouses, carts, are on schedule. Three (3) sets (1 set/hatch) of windows have been shipped to LAC and the fourth set is due to be shipped LAC on 17 February 1969.
- Test Program The major problem is still one of getting imagery so a determination can be made if cameras can produce resolution per specification. What is needed is Category II or better weather over urban areas and resolution targets with a minimum of turbulence and the aircraft performing to specification when operating under optimum conditions (i.e., speed, altitude, etc.). These requirements have been stipulated many times. A total of eleven (11) successful test missions will be required to declare IRIS II SN-001, SN-002 and SN-003 operationally ready; and to get data which will be utilized by our operational personnel (i.e., photography in 30° banks, at low sun angles, earliest stabilization time, etc.). The latter data collection can be collected during course of required O.R. tests. A minimum of two flights will be required to determine IRIS II capability to use SO-230 and SO-121.
- 4. Operation and Flight Manuals The undersigned brought five (5) preliminary copies of the IRIS II Operation and Flight Manuals back. Material in this manual is essential

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for imagery analysis personnel (NPIC) and our Operational personnel for mission planning, etc. On 7 February, two copies of the manual were forwarded to NPIC and two (2) copies were sent to IDEA/O/OSA and D/O/OSA for their study, comments and questions. SSD/R&D requested the manuals, along with their respective inputs, be returned to his office NLT 28 February 1969.

- 5. Air Compressor The air compressor and cooling coil brought to Itek by LAC, on 20 January 1969 to test along with the IRIS II in Itek's environmental chamber, was still at Itek. Both and the undersigned observed its operation. It is noisy and does produce vibrations. This type air compressor (piston) will be flown in a U-2R along with the IRIS II and instrumentation package to determine if the vibrations have a degrading effect on the photography. These flights are planned during week of 10 February 1969. SSD/R&D recommends Project Headquarters request LAC to give us a time and cost study to produce centrifugal pumps to furnish air to the air bars of the IRIS II.
- 6. Q-Bay Environmental Control This problem is one of thermal stability, temperature and degree of temperature control. For best performance, IRIS II prefers to start out at approximately 40°F and have its heater bring Q-Bay temperature to 70°. The "H", B and Delta III, on the other hand, prefer to start out at higher temperatures. With the IRIS II, if temperatures exceed 70°F, it is necessary for the temperature to be reduced below 70° before the heater can be cut in. Essentially, our problem will be to assure the mods made (i.e., Q-bay insulation, ground conditioning, etc.) while beneficial to one config, is not detrime tal to the performance of another. Our objective should be:
 - A. As compatible as possible to all configs.
 - B. Total year around ideal bay environment.
 - C. Reduce configuration stabilization time.
 - D. Improve imagery and reliability.

The first meeting to	firm up configur	ation thermal	stabilization
<u>requirements will be</u>	held week of 10	February 1969.	. Messrs.
("B" and "H"	config),	(Delta III),	and
(IRIS II) will meet on We	st Coast.	
LAC, in the absence	of	is being invit	ed to attend.

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7. The undersigned discussed some advanced technologies being undertaken by Itek with Manager, Plans and Programs; and, in light of these discussions, has indicated a desire to brief the appropriate personnel of OSA on some of Itek capabilities and research. Tentative time for the Itek briefing will be within the next two weeks.

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Distribution:

Cy 1 - D/SA (thru TB/OSA)

2 - D/O/OSA

3 - D/M/OSA

4 - IDEA/O/OSA

5 - CMD/OSA

6 - D/R&D/OSA

7 - SSD/R&D/OSA

8 - SSD/R&D Chrono

9 - RB/OSA